

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A high-capacity hydrogen storage alloy comprising a crystal structure containing a body-centered cubic structure as a single or main phase and made of a composition represented by a general formula $Ti_aCr_bMo_c$:

wherein a is in a range of from 25 to 45 % by atomic weight, b is in a range of from 30 to 65 % by atomic weight, and c is [[in a range of from 5 to]] greater than 7 % by atomic weight and less than or equal to 40 % by atomic weight.

2. (currently amended): A high-capacity hydrogen storage alloy comprising a crystal structure containing a body-centered cubic structure as a single or main phase and made of a composition represented by a general formula $Ti_aCr_bMo_cFe_d$:

wherein a is in a range of from 25 to 45 % by atomic weight, b is in a range of from 30 to 65 % by atomic weight, c is [[in a range of from 5 to]] greater than 7 % by atomic weight and less than or equal to 40 % by atomic weight, and d is not larger than 15 % by atomic weight.

3. (original): A high-capacity hydrogen storage alloy according to claim 1, wherein a treatment that said hydrogen storage alloy is heated at a temperature in a range of from 1,200 to 1,500°C for 1 minute to 24 hours and cooled at a cooling speed not less than the speed of water cooling, has been performed.

4. (original): A method for producing a high-capacity hydrogen storage alloy, comprising the steps of:

applying a heat treatment to a material made of a composition defined in Claim 1 to thereby heat said material at a temperature in a range of from 1,200 to 1,500°C for 1 minute to 24 hours; and

cooling said material at a cooling speed not less than the speed of water cooling after said heat treatment.

5. (new): A high-capacity hydrogen storage alloy according to claim 1, wherein Mo is present in a content greater than 7 % by atomic weight and less than or equal to 10 % by atomic weight.

6. (new): A high-capacity hydrogen storage alloy according to claim 2, wherein Mo is present in a content greater than 7 % by atomic weight and less than or equal to 10 % by atomic weight.

7. (new): A high-capacity hydrogen storage alloy according to claim 3, wherein Mo is present in a content greater than 7 % by atomic weight and less than or equal to 10 % by atomic weight.

8. (new): A method for producing a high-capacity hydrogen storage alloy, wherein said heat treatment is applied to a material made of a composition defined in Claim 5.

9. (new): A high-capacity hydrogen storage alloy according to claim 2, wherein Fe is present in said composition.

10. (new): A high-capacity hydrogen storage alloy according to claim 6, wherein Fe is present in said composition.